

## SEQUENCE LISTING

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<120> PEPTIDES HAVING ANTIANGIOGENIC ACTIVITY

<130> 6633.US.02

<150> US 60/166,791  
<151> 1999-11-22

<160> 1

<170> FastSEQ for Windows Version 4.0

<210> 1  
<211> 11  
<212> PRT  
<213> Antiangiogenic Peptide

<220>  
<221> VARIANT  
<222> (1)...(1)  
<223> Xaa = R1-(CH<sub>2</sub>)<sub>n</sub>-C(O)- wherein R is N-acetylamino  
at position 1

<221> VARIANT  
<222> (2)...(2)  
<223> Xaa = Ala, B-Ala, Asn, Cit, Gly(Et), Gln, Glu,  
Met, N-MeAla, N-MePro, Pro, Glu(pyro), and Sar at  
position 2

<221> VARIANT  
<222> (2)...(2)  
<223> Xaa = Ser, Thr, H<sub>3</sub>C-C(O)-HN-(CH<sub>2</sub>)<sub>q</sub>-C(O)-, wherein  
q is an integer, and  
H<sub>3</sub>C-C(O)-HN-CH<sub>2</sub>CH<sub>2</sub>-O-(CH<sub>2</sub>CH<sub>2</sub>O)<sub>r</sub>-CH<sub>2</sub>-C(O)-, wherein  
r is an integer at position 2

<221> VARIANT  
<222> (3)...(3)  
<223> Xaa = Ala, Asn, Asp, Gln, Glu, Gly, Leu, Met,  
PheAla, Pro, and Ser at position 3

<221> VARIANT  
<222> (4)...(4)  
<223> Xaa = AlloIle, AllylGly, 2-Abu, (1R,4S)AmCyeCO,  
Asp, 5-BrThiAla, 3-ClPheAla, 4-ClPheAla,  
3-CNPhAla, Cys(Et), Cys(Me), 2,3-Diapr,  
2,4-Diabu, 3,4-diOMePheAla at position 4

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<221> VARIANT  
 <222> (4)...(4)  
 <223> Xaa = 3-FPheAla, 4-FPheAla, His, HPheAla, HSer,  
 Lys(Ac), Met(O2), Met(O), 4-MePheAla, 1-Nal,  
 2-Nal, Orn, PheGly, Pro, 3-Pal, 3-ThzAla, 2-ThiAla  
 at position 4

<221> VARIANT  
 <222> (4)...(4)  
 <223> Xaa = Ser(Bzl), StyAla, Tic, Trp, and Tyr at  
 position 4

<221> VARIANT  
 <222> (5)...(5)  
 <223> Xaa = AlloIle, deLeu, Gly, Ile, and Pro at  
 position 5

<221> VARIANT  
 <222> (6)...(6)  
 <223> Xaa = Ala, AlloThr, AllylGly, Asn, Cys, Gln, Gly,  
 His, HSer, 4-OHMePheAla, Ile, Lys(Ac), Met, 1-Nal,  
 2-Nal, Nva, OctylGly, Orn, Pen, Pro, 3-Pal, Ser,  
 Thr, Trp, and Tyr at position 6

<221> VARIANT  
 <222> (7)...(7)  
 <223> Xaa = Ala, AllylGly, 2-Abu, Arg, Asn, Asp,  
 CamdPheAla, Cit, Cha, Cys, Gln, Glu, Gly, His,  
 HAla, Hile, HSer, Ile, Leu, Lys(Ac) at position 7

<221> VARIANT  
 <222> (7)...(7)  
 <223> Xaa = Lys(Isp), Met(O2), Met(O), Met, 1-Nal,  
 2-Nal, Nle, Nva, OctylGly, Pen, PheAla, PropGly,  
 3-Pal, Ser, Thr, Trp, Tyr, and Val at position 7

<221> VARIANT  
 <222> (8)...(8)  
 <223> Xaa = Ala, AlloIle, AllylGly, Asp, Gly(t-Bu), Cit,  
 Cha, Cys, Glu, Gly, HSer, Ile, Leu, Ley(Ac),  
 Met, 1-Nal, 2-Nal, Nva, Pen, PheAla, Pro, Ser, Trp,  
 Tyr, and Val at position 8

<221> VARIANT  
 <222> (9)...(9)  
 <223> Xaa = AimpheAla, AipheAla, Arg, Arg(diethyl), Cit,  
 Cha(Isp), Gly(pipad), GuaAla, 4-GuaPheAla, His,  
 HArg, Lys, Lys(Isp) at position 9

<221> VARIANT  
 <222> (9)...(9)  
 <223> Xaa = Lys(Nic), NArg, Orn(Isp), Orn(Nic),  
 Orn(Imd), (pipamid)Ala, and (pyramid)Ala at  
 position 9

<221> VARIANT

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<222> (10)...(10)

<223> Xaa = 2-Abu, Aib, Gly(t-Bu), HPro, OHPro, Ile,  
Leu, PheAla, Pro, Ser, Tic, Thr, and Val at  
position 10

<221> VARIANT

<222> (11)...(11)

<223> Xaa = AzaGlyNH<sub>2</sub>, GlyNH<sub>2</sub>, GlyNH-ethyl, SarNH<sub>2</sub>, and  
SerNH<sub>2</sub> at position 11

<400> 1

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

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